CLAIMS

setting or file.

1. A method for assessing a vulnerability in an image having a file and a configuration setting, comprising:

providing access to the image to allow the configuration setting to be manipulated;

identifying the vulnerability in the image; and eliminating the vulnerability in the image by manipulating the configuration

- 2. A method for assessing a vulnerability in an image as recited in claim 1 wherein providing access to the image to allow the configuration setting to be manipulated further includes providing access to the file and the configuration setting.
- A method for assessing a vulnerability in an image as recited in claim 1 wherein
 eliminating the vulnerability in the image by further includes updating the configuration setting.
 - 4. A method for assessing a vulnerability in an image as recited in claim 1 wherein eliminating the vulnerability in the image further includes modifying the file.

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- 5. A method for repairing an image comprising:
 - scanning the image;
 - detecting a vulnerability in an image;
 - determining a definition configured to repair the vulnerability in the image; and
- repairing the image using the definition as though the image was an independent
 - system.
 - 6. A method for repairing an image as recited in claim 5 wherein the definition includes a corrective measure.
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- 7. A method for repairing an image as recited in claim 5 wherein determining the definition further includes testing the definition before applying the definition to the image.
- 15 8. A method for repairing an image as recited in claim 5 further including determining whether the vulnerability affects the configuration setting.
 - 9. A method for repairing an image as recited in claim 5 further including determining the location of the vulnerability.
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- 10. A method for repairing an image as recited in claim 5 wherein the image has a configuration setting and further including implementing the definition in the configuration setting.

- 11. A method for repairing an image as recited in claim 5 further including implementing the definition in a file associated with the image.
- 5 12. A method for repairing an image as recited in claim 5 wherein detecting a vulnerability in an image further includes evaluating an image of a machine, the machine configured to run as a system.
- 13. A method for repairing an image as recited in claim 5 wherein detecting a
 10 vulnerability in an image further includes abstracting a physical resource of the system to generate a virtual machine, the virtual machine representing a collection of resources to execute an application.
- 14. A method for repairing an image as recited in claim 5 wherein determining a
 15 definition configured to repair the vulnerability in the image further includes comparing the definition to the image to yield a result whereby the result indicates whether the definition is current.
- 15. A method for repairing an image as recited in claim 5 wherein determining a

 definition configured to repair the vulnerability in the image further includes comparing
 the definition to a criterion to determine whether to apply the definition to the image.

- 16. A method for repairing an image as recited in claim 5 wherein determining a definition configured to repair the vulnerability in the image further includes verifying a key in a registry associated with the image.
- 5 17. A method for repairing an image as recited in claim 5 wherein determining a definition configured to repair the vulnerability in the image further includes scanning a storage associated with the image.
- 18. A method for repairing an image as recited in claim 5 wherein determining a

 definition configured to repair the vulnerability in the image further includes scanning a

 processor state associated with the image.
 - 19. A method for repairing an image as recited in claim 5 wherein determining a definition configured to repair the vulnerability in the image further includes modifying a storage associated with the image.
 - 20. A method for repairing an image as recited in claim 5 wherein determining a definition configured to repair the vulnerability in the image further includes modifying a processor state associated with the image.

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- 21. A system for securing an image comprising: an engine configured to detect a vulnerability in an image having a configuration setting;
- a logic module configured to determine a definition configured to secure the image and to test the definition before applying the definition to the image; and an access module for restoring the image using the definition.
 - 22. A system for securing an image as recited in claim 17 wherein the engine further includes a decomposer configured to abstract the image of a machine.

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23. A system for assessing a vulnerability in an image comprising:
a logic for assessing a vulnerability in an image;
a virtualization module for abstracted the image from a file; and
a decomposer for writing data to a registry.

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and

24. A data signal embodied in a carrier wave comprising: instructions for detecting a vulnerability in an image having a configuration setting;

instructions for determining a definition configured to secure the image; instructions for testing the definition before applying the definition to the image;

instructions for restoring the image using the definition.

- 25. A computer program product for assessing a vulnerability in an image, the computer program product being embodied in a computer readable medium and comprising computer instructions for:
 - detecting a vulnerability in an image having a configuration setting;
- 5 determining a definition configured to secure the image;
 - testing the definition before applying the definition to the image; and restoring the image using the definition.